

What is claimed is:

1. A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:  
5 a pump housing;  
a pumping mechanism associated with the pump housing adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion of the tube  
10 set; and  
a tube snap set adapted to permit insertion and removal of a slack portion of the tube set.
2. The medical pump of claim 1, wherein the tube snap  
15 set is located remote from the pumping mechanism and on a handle portion of the pump housing.
3. The medical pump of claim 1, wherein the tube snap set includes a first tube snap and a second tube snap  
20 spaced from the first tube snap, the tube snap set being adapted to receive and slidably retain a slack portion of the tube set between the first tube snap and the second tube snap such that the retained slack portion is adjustable in length.  
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4. The medical pump of claim 3, wherein the pump housing has a pair of elongated grooves formed therein that defines the first and second tube snaps, each groove has a pair of opposing tapered edges and an  
30 opening extending therebetween.
5. The medical pump of claim 4, wherein the opening of the groove is C-shaped.

6. The medical pump of claim 1, further comprising  
a tube hanger attached to the pump housing to receive  
and removably secure a slack portion of the tube set to  
5 the pump.

7. The medical pump of claim 6, wherein the tube hanger  
includes a main arm extending outwardly from the pump  
housing and at least one hook extending laterally from  
10 the main arm in spaced relation to the pump housing so  
as to receive and hold a slack portion between the hook  
and the pump housing.

8. The medical pump of claim 7, wherein the main arm of  
15 the tube hanger is attached to a bottom wall of the pump  
housing.

9. The medical pump of claim 7, wherein the main arm of  
the tube hanger is attached to a front wall of the  
20 housing.

10. The medical pump of claim 7, wherein the pump  
housing includes a housing recess located behind the  
hook of the tube hanger.

25 11. The medical pump of claim 10, wherein the housing  
recess extends from a front wall of the pump housing to  
a bottom wall of the pump housing.

30 12. The medical pump of claim 7, wherein the tube  
hanger includes two hooks extending in opposite  
directions from the main arm, each hook having a  
proximate end attached to the main arm and a distal end

positioned relative to the pump housing so as to define an insertion gap adapted to permit a slack portion of the tube set to be snappingly passed therethrough.

5 13. The medical pump of claim 12, wherein the insertion gap opens into a tube retention space defined between the pump housing and the hook, the hook being constructed so that the tube retention space increases in width and then decreases in width between the distal  
10 end of the hook and the proximate end of the hook.

14. The medical pump of claim 3, wherein the pumping mechanism is adapted to pump fluid in a fluid flow direction and at least one of the grooves extends  
15 generally parallel to the fluid flow direction.

15. The medical pump of claim 14, wherein both of the grooves extend generally parallel to the fluid flow direction.

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16. The medical pump of claim 14, wherein the fluid flow direction is generally vertical.

17. The medical pump of claim 14, wherein the grooves  
25 are located on a handle portion of the pump housing.

18. A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:

30 a pump housing;

a pumping mechanism associate with the pump housing and adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line

portion and into an outlet line portion; and  
a tube hanger attached to the pump housing and adapted  
to receive and removably secure a slack portion of  
line to the pump at a location remote from the  
5 pumping mechanism.

19. The medical pump of claim 18, wherein the tube  
hanger includes a main arm extending outwardly from the  
pump housing and at least one hook extending laterally  
10 from the main arm in spaced relation to the pump housing  
so as to receive and hold a slack portion between the  
hook and the pump housing.

20. The medical pump of claim 19, wherein the main arm  
15 of the tube hanger is attached to a bottom wall of the  
pump housing.

21. The medical pump of claim 19, wherein the main arm  
of the tube hanger is attached to a front wall of the  
20 housing.

22. The medical pump of claim 19, wherein the pump  
housing has a front wall that includes a user interface  
screen and the main arm of the tube hanger is attached  
25 to the pump housing below the user interface screen.

23. The medical pump of claim 19, wherein the pump  
housing includes a housing recess located behind the  
hook of the tube hanger.

30 24. The medical pump of claim 23, wherein the housing  
recess extends from a front wall of the pump housing to  
a bottom wall of the pump housing.

25. The medical pump of claim 19, wherein the tube hanger includes two hooks extending in opposite directions from the main arm, each hook having a proximate end attached to the main arm and a distal end positioned relative to the pump housing so as to define an insertion gap adapted to permit a slack portion of the tube set to be snappingly passed therethrough.

26. The medical pump of claim 25, wherein the insertion gap opens into a tube retention space defined between the pump housing and the hook, the hook being constructed so that the tube retention space increases in width and then decreases in width between the distal end of the hook and the proximate end of the hook.

27. A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:  
a pump housing;  
a pumping mechanism associated with the pump housing adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion of the tube set; and  
at least one tube snap located on the pump housing remote from the pumping mechanism, the tube snap being adapted to permit insertion and removal of a slack portion of the tube set.

28. The medical pump of claim 27, wherein the tube snap is located above and in generally vertically alignment with the pumping mechanism.

29. A medical pump for use with a tube set having a slack portion, comprising:  
a pump housing;  
5 a pumping mechanism associate with the pump housing; and  
a tube hanger attached to the pump housing and adapted to receive and removably secure a slack portion to the pump at a location remote from the pumping mechanism.
- 10 30. The medical pump of claim 29, wherein the pumping mechanism is a cassette pump.